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WASTE WATER  
DISCHARGES REPORT

DECEMBER 1996



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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1.	Duffin Creek WPCP	Pickering (York Durham)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval monthly limit for total phosphorus once.</li> <li>Plant upset condition caused by filamentous bacteria problems.</li> <li>Chlorination of secondary clarifiers corrected the condition.</li> </ul>
2.*	Petro Canada Products - Oakville Refinery	Oakville (Halton Peel)	Petroleum Refining Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval six times for total suspended solids at the process effluent discharge (Control Point 100).</li> <li>Storm events caused wastewater treatment capacity to be exceeded. Petro Canada is finishing work diverting stormwater from the property, lining ditches to prevent erosion and upgrading the treatment plant.</li> </ul>

- \* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.





# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1.*	Pickering NGD-A	Pickering (York-Durham)	Electric Power Generation Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval objective for total residual chlorine 144 times in the Reactor Building Service Water (Control Point 2300).</li> <li>Company is taking action to resolve the problem.</li> </ul>
2.*	Pickering NGD-B	Pickering (York-Durham)	Electric Power Generation Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval objective for total residual chlorine 37 times in the Reactor Building Service Water (Control Point 2400).</li> <li>Company is taking action to resolve the problem.</li> </ul>
3.	Darlington NGD	Clarington (York-Durham)	Electric Power Generation STP Effluent	<ul style="list-style-type: none"> <li>Virtually continuous exceedance of the Certificate of Approval objective for total residual chlorine in the final STP effluent (Control Point 2800).</li> <li>An amended Certificate of Approval has been issued to permit UV disinfection of the final STP.</li> </ul>

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Non-Compliance With Control Order and Certificate of Approval Limits

Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1*	Ault Foods Limited	Winchester (Cornwall)	Food Processing Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval annual loading limits for biochemical oxygen demand, total suspended solids, and sulphide.</li> <li>The company was issued a Certificate of Approval in June 1993 for upgrades to the wastewater treatment works.</li> <li>Sulphide concerns have been addressed and the MOEE and the company are currently discussing further abatement measures and amendments to the Certificate of Approval.</li> </ul>
2	Bath Water Pollution Control Plant	Bath (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Marginally exceeded the Certificate of Approval monthly concentration limit for total phosphorus once.</li> <li>Upgrades have been undertaken to improve plant performance.</li> </ul>
3	Carleton Place Water Pollution Control Plant	Carleton Place (Ottawa)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval seasonal concentration limit for ammonia.</li> <li>The upgraded treatment plant was commissioned in October 1993. The operating authority experienced problems in sustaining nitrification. It is anticipated that a new operating strategy adopted by the operating authority will improve nitrification.</li> </ul>

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
4*	Domtar Inc., Remediation Group (formerly Wood Preserving Division)	Trenton (Kingston)	Site Remediation Effluent	<ul style="list-style-type: none"> <li>• Exceeded the Certificate of Approval monthly concentration limits at the "North Outfall" for solvent extractables twice and pentachlorophenol ten times.</li> <li>• Exceeded the Certificate of Approval monthly concentration limits at the "Far North" outfall for total suspended solids six times, solvent extractables five times, and pentachlorophenol seven times.</li> <li>• The company has embarked on a ten year plan to bio-remediate all contaminated soils on-site.</li> <li>• Construction is underway to provide treatment of contaminated ground and surface water discharging via the "Far North" outfall.</li> <li>• Repairs made to the carbon tower underdrains have improved the "North Outfall" discharge quality.</li> <li>• The company has also obtained an amended Certificate of Approval to increase storm water retention in the "North Outfall" drainage area to reduce the exceedances.</li> </ul>

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Non-Compliance With Control Order and Certificate of Approval Limits

Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
5*	Haley Industries Limited	Haley Station (Ottawa)	Metal Casting Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval monthly concentration limits for silver, chromium, and phenols seven times; aluminum and phosphorus six times; and copper and zinc four times.</li> <li>Exceeded the Certificate of Approval monthly loading limits for silver, aluminum, and chromium four times, and copper, phenols, phosphorus, and zinc twice.</li> <li>A Certificate of Approval was issued for an updated wastewater treatment system in 1994.</li> </ul>
6*	Kemptville Water Pollution Control Plant	Kemptville (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Marginally exceeded the Certificate of Approval monthly concentration limit for total phosphorus once.</li> <li>Corrections have been made to the operation to prevent future occurrences.</li> </ul>
7	Lakefield Waste Stabilization Ponds	Lakefield (Peterborough)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval monthly concentration limit for total phosphorus once.</li> <li>Liquid alum feed from an outside bulk storage tank had partially frozen, resulting in poor coagulant feed. This problem has been rectified.</li> <li>The Village has hired a Consulting Engineer to review operations at the plant, including process optimization.</li> </ul>

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Non-Compliance With Control Order and Certificate of Approval Limits

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
8	Napanee Water Pollution Control Plant	Napanee (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval monthly concentration limit for biochemical oxygen demand once.</li> <li>A review of data submissions indicates that compliance with this parameter has been maintained since the exceedance took place. Effluent will continue to be monitored for compliance status.</li> </ul>
9	Nestlé Enterprises Limited	Chesterville (Cornwall)	Food Processing Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval monthly total phosphorus concentration limit once.</li> <li>The particular circumstance leading to the non-compliance was corrected. The need for further remedial action is not anticipated.</li> </ul>
10*	Wendover Water Pollution Control Plant	North Plantagenet Township (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> <li>Marginally exceeded the Certificate of Approval total suspended solids concentration limit in a single sample.</li> <li>The operating authority has reviewed sampling methodology in order to ensure representative collections.</li> <li>Further analyses performed indicate that the treatment works is meeting the requirements.</li> </ul>

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# WASTE WATER DISCHARGES REPORTS/1994

Ministry of Environment and Energy

## Non-Compliance With Policies and Guidelines

Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1*	Amherstview Waste Stabilization Pond	Ernestown Township (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline limit for total suspended solids.</li> <li>Algae contributed to the elevated total suspended solids concentration in the effluent. Ernestown Township is continuing to address the adequacy of the existing treatment works with input from the MOEE.</li> </ul>
2*	Arnprior Water Pollution Control Plant	Arnprior (Ottawa)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline limits for total suspended solids and biochemical oxygen demand, and the monthly guideline limit for total phosphorus once.</li> <li>Funding continues to be sought to upgrade this existing primary treatment facility to secondary treatment.</li> </ul>
3	Bancroft Water Pollution Control Plant	Bancroft (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline limit for biochemical oxygen demand.</li> <li>The municipality is assessing biosolids storage and utilization options to increase handling capability. Poor plant performance has been attributed to inadequate biosolids storage capacity.</li> </ul>

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Non-Compliance With Policies and Guidelines

Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
4*	Cameco Corporation	Port Granby (Peterborough)	Mining Waste Disposal Site	<ul style="list-style-type: none"> <li>Exceeded the guidelines for monthly average arsenic concentrations eleven times and for ammonia once.</li> <li>This site is scheduled for decommissioning when a Federal Government Task Force identifies a new site for receiving the waste.</li> </ul>
5	Casselman Waste Stabilization Pond	Casselman (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline limit for total suspended solids.</li> <li>During the spring it was necessary to discharge the lagoon under partial ice cover. The lagoon contents had yet to attain a fully aerobic condition when discharge became necessary. Effluent quality was therefore not optimal.</li> <li>Non-compliance with the total suspended solids guideline was related to weather conditions. Discharge under partial ice cover is not the normal method for spring release.</li> </ul>
6*	Chalk River Nuclear Laboratories (Atomic Energy Canada Limited)	Chalk River (Ottawa)	Nuclear Research Facility Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual total suspended solids objective at the process effluent monitoring station (control point 0500).</li> <li>Exceeded the monthly pH objective three times at the batch discharge monitoring station (control point 0101).</li> <li>AECL is currently studying wastewater treatment/neutralization options.</li> </ul>

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Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
7*	Cobourg Water Pollution Control Plant No. 1	Cobourg (Peterborough)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline limit for total phosphorus once.</li> <li>The exceedance was due to a discharge from one industrial source and coagulation problems at the plant.</li> <li>The Town is reviewing sewer use by-law requirements with the industry and has improved coagulation techniques.</li> </ul>
8*	Cornwall Chemicals Limited	Cornwall (Cornwall)	Organic Chemical Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objective limits for total suspended solids and biochemical oxygen demand.</li> <li>The company has since ceased production and dismantled the production facilities.</li> </ul>
9	Deep River Water Pollution Control Plant	Deep River (Ottawa)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline limit for total suspended solids.</li> <li>The municipality has completed an Environmental Study Report for an expanded plant and will proceed once funding is obtained.</li> </ul>
10*	Domtar Inc., Containerboard Division	Trenton (Kingston)	Pulp and Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objectives for biochemical oxygen demand and total suspended solids.</li> <li>The company is in the process of installing and operating an evaporative technology based treatment system.</li> </ul>

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Non-Compliance With Policies and Guidelines

Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
11*	E.B. Eddy Forest Products Limited	Ottawa (Ottawa)	Pulp and Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objective for biochemical oxygen demand and the monthly objective for total phosphorus three times.</li> <li>The company is constructing wastewater treatment facilities in Hull, Quebec. The treatment plant now receives the process wastewater produced at the Ottawa mill.</li> </ul>
12*	Essroc Canada Inc.	Pictou (Kingston)	Industrial Minerals Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objective for total suspended solids at the plant effluent and south quarry discharge monitoring stations.</li> <li>In 1992, the company retained the services of an engineering consulting firm to investigate the feasibility of establishing a closed loop, totally recirculated wastewater management system.</li> <li>The company has budgeted funds for the completion of the recirculation system by the end of 1996.</li> </ul>

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Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
13*	Frankford Water Pollution Control Plant	Frankford (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for total suspended solids and the monthly guideline for total phosphorus three times.</li> <li>The operating authority attributes total suspended solids and total phosphorus exceedances to flows that exceeded the hydraulic capacity of the treatment plant.</li> <li>A new sewage treatment plant is under construction.</li> </ul>
14	Gananoque Waste Stabilization Pond	Gananoque (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline for total phosphorus once.</li> <li>Exceedance attributed to one abnormal sample result obtained at the start of the discharge. All other sample results collected in 1994 were within the guideline.</li> </ul>
15*	Hawkesbury Water Pollution Control Plant	Hawkesbury (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for total suspended solids.</li> <li>The operating authority cites inadequate sludge storage capacity as being the cause for elevated effluent total suspended solids concentration in the spring. A consultant has been retained to investigate options for an Area Sludge Management approach.</li> </ul>

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
16*	ICI Canada Inc., Consolidated Packaging Operation (formerly Stanchem)	Cornwall (Cornwall)	Inorganic Chemical Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objectives for biochemical oxygen demand and total suspended solids and the monthly objectives for total phosphorus twice.</li> <li>The company is continuing to assess the diversion of effluent into the municipal sewage collection system operated by the City of Cornwall.</li> </ul>
17*	ICI Canada Inc., ICI Forest Products	Cornwall (Cornwall)	Inorganic Chemical Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objective for total suspended solids and the monthly objective limit for mercury twelve times.</li> <li>The mercury cell chlor-alkali plant at this facility has ceased production and the company is re-evaluating its effluent characteristics in light of the chlor-alkali plant closure.</li> </ul>
18*	Ingleside Water Pollution Control Plant	Osnabruck Township (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for biochemical oxygen demand and total suspended solids.</li> <li>This primary treatment plant is to be upgraded to a secondary treatment facility.</li> </ul>

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
19*	Iroquois Water Pollution Control Plant	Iroquois (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for total suspended solids.</li> <li>The operating authority has committed itself to an enhanced sampling program. The monitoring program is to be used to suggest remedial measures to correct non-compliance issues at this treatment plant.</li> </ul>
20*	Kingston (City) Water Pollution Control Plant	City of Kingston (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline for total phosphorus twice.</li> <li>An upgraded treatment works has been placed into service and further exceedances are not anticipated.</li> </ul>
21	Lafarge Canada Inc., Bath Cement Plant	Bath (Kingston)	Industrial Minerals Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objectives for total suspended solids at the quarry discharge monitoring station.</li> <li>The company has retained a consultant to assess options for the control of discharges from plant property and further improvements are anticipated.</li> </ul>
22	Long Sault Water Pollution Control Plant	Township of Cornwall (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for biochemical oxygen demand.</li> <li>Construction of a new sewage treatment plant has been completed and placed in operation.</li> </ul>

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23*	Morrisburg Water Pollution Control Plant	Morrisburg (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for total suspended solids.</li> <li>The operating authority cites that insufficient hydraulic capacity has been responsible for this facility's non-conformance with M.O.E.E. guidelines.</li> <li>Financial assistance is being sought to initiate an Environmental Study Report. The ESR must be completed before work can commence on upgrading the treatment works.</li> </ul>
24	Nestlé Enterprises Limited	Chesterville (Cornwall)	Food Processing Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objectives for biochemical oxygen demand and total suspended solids.</li> <li>The company is planning an overall upgrade to their treatment system.</li> </ul>
25*	Nutrite Inc. (formerly Nitrochem Inc.)	Maitland (Kingston)	Inorganic Chemical Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly objective for ammonia during all twelve months.</li> <li>The company has implemented a Spill Prevention Strategy and further upgrades to their wastewater treatment system are anticipated.</li> </ul>
26	Perth Waste Stabilization Pond	Perth (Ottawa)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline for total phosphorus once.</li> <li>Operational problems related to alum feed rate control have now been rectified.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORTS/1994

Ministry of Environment and Energy

## Non-Compliance With Policies and Guidelines

Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
27*	Peterborough Water Pollution Control Plant	Peterborough (Peterborough)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline for total phosphorus three times.</li> <li>A major plant upgrading has been completed and future exceedances are not anticipated.</li> </ul>
28*	Plantagenet Waste Stabilization Pond	Plantagenet (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for total suspended solids.</li> <li>The operating authority cites algae growth as contributing to the elevated total suspended solids concentration in the effluent.</li> <li>Coagulant application procedure is under review and a consultant has been retained to investigate options for upgrading the treatment works.</li> </ul>
29	Renfrew Water Pollution Control Plant	Renfrew (Ottawa)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline for total phosphorus once.</li> <li>This minor exceedance will be addressed through better control of coagulant feed.</li> </ul>
30	Russell Waste Stabilization Pond	Township of Russell (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for total suspended solids.</li> <li>Remedial measures were undertaken prior to the next discharge.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORTS/1994

Ministry of Environment and Energy

## Non-Compliance With Policies and Guidelines

Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
31*	Smith's Falls Water Pollution Control Plant	Smith's Falls (Ottawa)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline for total phosphorus once.</li> <li>Upgrading of the treatment works has been completed and further exceedances are not anticipated.</li> </ul>
32*	Strathcona Paper Company (a Division of Roman Corp. Ltd.)	Camden East (Kingston)	Pulp and Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objective for total suspended solids and the monthly objective for total phosphorous eleven times.</li> <li>The company is in the process of upgrading their wastewater treatment works.</li> </ul>
33*	Sonoco Limited	Glen Miller (Kingston)	Pulp and Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objectives for total suspended solids and biochemical oxygen demand.</li> <li>The company is in the process of upgrading its wastewater treatment works.</li> </ul>
34	Wellington Mushroom Farm	Wellington (Kingston)	Food Processing Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual objectives for biochemical oxygen demand and total suspended solids.</li> <li>The M.O.E.E. has requested the provision of remedial measures from this industrial discharger.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORTS/1994

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Eastern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
35	Wellington Water Pollution Control Plant	Wellington (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly guideline for total phosphorus once.</li> <li>There is a possibility that a sampling error may have contributed to the single guideline exceedance. No exceedance of the total phosphorus guideline has been reported to date since the non-compliance event.</li> </ul>
36*	Westport Waste Stabilization Pond	Westport (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for total suspended solids and the monthly guideline for total phosphorus once.</li> <li>Treatment upgrades planned (snowfluent system) will eliminate surface water discharges.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.





# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Mid Ontario Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1*	Applied Carbon Technology	Kearney (North Bay)	Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval four week rolling average limit for iron five times.</li> <li>Operations at the mine site have been suspended since June 1994.</li> <li>Certificate of Approval amendments have been made and no further iron exceedances are expected.</li> </ul>
2	E.B. Eddy Forest Products Ltd.	Espanola (Sudbury)	Pulp and Paper Effluent	<ul style="list-style-type: none"> <li>The Control Order daily biochemical oxygen demand limit was exceeded once due to a mill maintenance shutdown.</li> <li>The Control Order total suspended solids limit was exceeded three times due to remedial work (liner replacement) undertaken at the settling ponds.</li> </ul>
3*	Falconbridge Ltd. NIR Road	Falconbridge (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval limit for iron twice.</li> <li>Company has constructed a water control structure to improve performance of the treatment system.</li> </ul>
4*	Fox Street Water Pollution Control Plant	Penetanguishene (Barrie)	Municipal Effluent	<ul style="list-style-type: none"> <li>Total phosphorus in effluent consistently exceeds the Certificate of Approval criteria. Tertiary treatment to correct this problem has been brought on-line.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Mid Ontario Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
5	Gravenhurst Water Pollution Control Plant	Town of Gravenhurst (Muskoka- Haliburton)	Municipal Effluent	<ul style="list-style-type: none"> <li>Total ammonia nitrogen limits of the Certificate of Approval were exceeded three times. The exceedence was attributed to start-up problems at this new facility. Future compliance is anticipated.</li> </ul>
6	Hamlet of Field	Field (North Bay)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval limits for total phosphorus twice.</li> <li>Exceedances were associated with high flows from an undetermined source. The municipality is currently investigating the source of the high flows.</li> </ul>
7*	INCO - Nolin Creek	Sudbury (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval limit for nickel once.</li> <li>Company has constructed a retention pond upstream which has greatly reduced bypasses and exceedences and is currently studying the need for further improvements.</li> </ul>
8*	INCO - Whistle Mine	Town of Capreol (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval limit for nickel three times and pH four times.</li> <li>Company has taken steps to ensure close adherence to established operating procedures. Improved pH control will be required for the company to meet future criteria.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Mid Ontario Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
9*	MacMillan-Bloedel	Sturgeon Falls (North Bay)	Pulp and Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded limits for total suspended solids - daily average concentration once and daily loading once.</li> <li>Exceedence was associated with equipment failure during maintenance shut down.</li> </ul>
10	Stepan Canada Inc	Orillia (Barrie)	Organic Chemical Manufacturer Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval monthly average TOC (total organic carbon) limit twice.</li> <li>Plant is currently reviewing their sources of TOC in an effort to prevent future exceedances.</li> </ul>
11*	Thorne Local Services Board	Thorne (North Bay)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded annual average limits for biochemical oxygen demand and total suspended solids.</li> <li>Operating authority has consulted the Ontario Clean Water Agency and the operational problems have been resolved.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Mid Ontario Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1*	Bala Water Pollution Control Plant	Township of Muskoka Lake (Muskoka-Haliburton)	Municipal Effluent	<ul style="list-style-type: none"> <li>• Effluent exceeded the annual guideline for total suspended solids and biochemical oxygen demand.</li> <li>• A new treatment plant has been put on-line and future compliance is anticipated.</li> </ul>
2	Espanola Sewage Treatment Plant	Espanola (Sudbury)	Municipal Effluent	<ul style="list-style-type: none"> <li>• Exceeded annual guideline for total suspended solids and biochemical oxygen demand.</li> <li>• A new plant has been constructed and placed in operation and future compliance is anticipated.</li> </ul>
3*	Haliburton Water Pollution Control Plant	Dysart, et al., (Muskoka-Haliburton)	Municipal Effluent	<ul style="list-style-type: none"> <li>• Effluent exceeded the monthly total phosphorus guideline once. This treatment facility has been upgraded and future compliance is anticipated.</li> </ul>
4	Huntsville Water Pollution Control Plant	Town of Huntsville (Muskoka-Haliburton)	Municipal Effluent	<ul style="list-style-type: none"> <li>• Effluent exceeded the monthly total phosphorus guideline once. A second treatment facility has been brought on line and future compliance is anticipated.</li> </ul>
5*	INCO - Crean Hill Mine	Sudbury (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> <li>• Exceeded guideline for pH four times.</li> <li>• Company investigating options for pH reduction to meet future regulation limits.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.





# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Mid Ontario Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
6*	INCO - Levack Mine	Sudbury (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded guidelines for nickel four times, total suspended solids three times, and iron once.</li> <li>Dredging of the settling pond during 1994 improved treatment performance.</li> <li>Company is presently studying remedial closure options.</li> </ul>
7*	INCO - Nickel Refinery	Sudbury (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded guidelines for nickel twice and total metals twice.</li> <li>This discharge will be redirected to the Copper Cliff tailings area and then to the Copper Cliff Wastewater Treatment Plant within two years.</li> </ul>
8	Mitsubishi Electronic Industries Canada Inc.	Midland (Barrie)	Metal Fabricating and Finishing Effluent	<ul style="list-style-type: none"> <li>Provincial Water Quality Objectives monthly average concentrations for chromium were exceeded eleven times, zinc eight times, lead once and aluminum five times.</li> <li>A consultant's report has been received and further consultations are planned to address the exceedances.</li> </ul>
9	Willisville Sewage Treatment Plant	Willisville (Sudbury)	Municipal Effluent	<ul style="list-style-type: none"> <li>Plant exceeded guidelines for total suspended solids and biochemical oxygen demand on numerous occasions.</li> <li>With new operators at the plant, compliance is anticipated.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1	Abitibi - Price Inc. Iroquois Falls	Iroquois Falls (Timmins)	Pulp & Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded the daily total suspended solids Control Order limit once due to a start up problem.</li> <li>Incident is not expected to be repeated.</li> </ul>
2*	ADM/Ogilvie Mills Ltd.	Thunder Bay (Thunder Bay)	Food Processing Effluent	<ul style="list-style-type: none"> <li>Exceeded the biochemical oxygen demand Control Order limit for 27 days early in 1994.</li> <li>Partial diversion to the City of Thunder Bay sanitary sewer resumed in August 1994.</li> <li>Diversion rate is presently at 20 - 25% with plans to increase the loadings gradually to the STP provided there are no problems at the municipal plant.</li> <li>The company is investigating other treatment alternatives and was in compliance for the remainder of the year.</li> </ul>
3*	Avenor Inc. (formerly Canadian Pacific Forest Products Ltd.)	Thunder Bay (Thunder Bay)	Pulp & Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded the daily and monthly total suspended solids limits twice.</li> <li>Exceedences were due to high total suspended solids concentrations in the intake water.</li> <li>The remaining exceedences were due to clarifier maintenance procedures which were revised to avoid future problems. The company was in compliance for the remainder of the year.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
4	Cochrane WPCP	Cochrane (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual average Certificate of Approval limit for total suspended solids and the monthly limit for total phosphorus.</li> <li>Dedication of full time staff to the plant is expected to resolve future problems.</li> </ul>
5*	Domtar Packaging Inc.	Red Rock (Thunder Bay)	Pulp & Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded the daily Control Order limit for total suspended solids four times and biochemical oxygen demand three times.</li> <li>The company has been experimenting with new product lines and optimizing use of pulping equipment which resulted in the noted exceedances.</li> <li>The company was in compliance for the remainder of the year.</li> </ul>
6	Falconbridge Ltd. Kidd Creek Minesite	Timmins (Timmins)	Metal Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded the zinc Certificate of Approval limit once.</li> <li>Improvements to the treatment system are being planned including an increase of the system's retention time.</li> <li>Quality control of the lime plant is being improved to coincide with the newly commissioned carbon dioxide plant.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

## Non-Compliance With Control Order and Certificate of Approval Limits

Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
7*	James River-Marathon, Ltd.	Marathon (Thunder Bay)	Pulp & Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded the daily Control Order limits for biochemical oxygen demand six times and total suspended solids three times.</li> <li>The exceedances were caused by minor process changes and the plant was in compliance for the remainder of the year.</li> </ul>
8*	Jogues Lagoon	Jogues (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval limit for total suspended solids and total phosphorus during the spring discharge period.</li> <li>The Local Services Board will monitor the level of phosphorus prior to the discharge and have been advised to treat the lagoon if the levels are found to exceed the limit.</li> </ul>
9	Malette Inc. Malette Kraft Pulp and Paper Division	Smooth Rock Falls (Timmins)	Pulp & Paper Effluent	<ul style="list-style-type: none"> <li>Exceeded the daily biochemical oxygen demand Control Order limit twice.</li> <li>With a new secondary treatment system in place since October 1994, the incident is not expected to be repeated.</li> </ul>
10	Placer Dome Canada Ltd. Detour Lake Mine	Timmins (Timmins)	Metal Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly average Certificate of Approval limit for copper once.</li> <li>With a new treatment system in operation since November 1994, the incident is not expected to be repeated.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.





# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
11*	Royal Oak Mines Inc. Timmins Division Schumacher Mine	Timmins (Timmins)	Metal Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly average Certificate of Approval limit for total suspended solids once.</li> <li>Exceedence was storm related and is not expected to be repeated.</li> </ul>

- \* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

## Non-Compliance With Policies and Guidelines

Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1*	ADM/Ogilvie Mills Ltd.	Thunder Bay (Thunder Bay)	Food Processing Effluent	<ul style="list-style-type: none"> <li>Exceeded the monthly total suspended solids guideline limit twelve times.</li> <li>Partial diversion of the effluent to the City of Thunder Bay sanitary sewer system resumed in August.</li> <li>Diversion rate presently at 20 - 25% with plans to increase flows gradually, according to the STP's ability to handle the additional loadings.</li> <li>The company is investigating treatment alternatives.</li> </ul>
2*	Bob's Lake Lagoon	Timmins (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for biochemical oxygen demand.</li> <li>Municipality is planning to construct a new pumping station once funding is in place which will direct flows to the Whitney - Tisdale sewage treatment plant.</li> </ul>
3*	Earlton Lagoon	Armstrong (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual guideline for total suspended solids.</li> <li>Municipality has submitted an action plan which includes disconnection of cavestroughs and sump pumps from the sewer system, waterproofing of sanitary manhole covers and preparation of a System Optimization Study and an Environmental Study Report.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

## Non-Compliance With Policies and Guidelines

Northern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
4	Falconbridge Ltd. Kidd Creek Metsite	Timmins (Timmins)	Metal Mining Effluent	<ul style="list-style-type: none"> <li>Exceeded the zinc guideline twice.</li> <li>Treatment plant was upgraded in the fall of 1994 and future compliance is expected.</li> </ul>
5	Madsen WPCP	Madsen (Kenora)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual percentage removal guideline limit for biochemical oxygen demand.</li> <li>An Environmental Study Report was completed in June 1994 and provincial funding of 87.5 % approved for upgrading the plant in August 1994. The community is seeking financing for its share of the capital works.</li> </ul>
6*	McGarry WPCP	McGarry (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual percentage removal guideline for biochemical oxygen demand and total suspended solids and the monthly guideline for total phosphorus.</li> <li>Completion of an Environmental Study Report on a new treatment facility is expected in 1996.</li> </ul>
7*	Moosonee WPCP	Moosonee Development Area Board (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the annual biochemical oxygen demand guideline.</li> <li>Completion of a revised Environmental Study Report is anticipated shortly on the construction of a new treatment system.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1	Blenheim Lagoon	Blenheim (Windsor)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded Certificate of Approval monthly limits for total suspended solids during the spring discharge due to algae blooms.</li> <li>Plant upgrade is currently underway to convert the existing system to a New Hamburg process.</li> </ul>
2*	Dutton WPCP	Dutton (London)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded Certificate of Approval monthly limits for biochemical oxygen demand, total suspended solids and ammonia three times.</li> <li>The Sutton Process has been abandoned, new filters and a UV disinfection system constructed and placed in operation.</li> </ul>
3*	Ethyl Canada Ltd.	Sarnia (Sarnia)	Organic Chemical	<ul style="list-style-type: none"> <li>Exceeded Certificate of Approval limits for residual chlorine, dissolved oxygen and pH.</li> <li>Exceeded Certificate of Approval limits for total lead once and 1,2 dichlorethane three times.</li> <li>The tetra-ethyl lead production facility was shut down on March 31, 1994 and the company has developed and implemented a control loop designed to resolve the pH exceedances.</li> <li>Abatement action is underway to resolve the other issues.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.





# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
4	Lambton Thermal Generating Station	Moore Township (Sarnia)	Electric Power Effluent	<ul style="list-style-type: none"> <li>Exceeded Certificate of Approval limit for total suspended solids twice, reportedly due to an analytical error.</li> <li>The Flue Gas Desulphurization (scrubber) effluent water treatment plant started up October, 1994.</li> <li>Sewage lagoon discharge exceeded phosphorous and biochemical oxygen demand criteria.</li> <li>Adjusted operation of coagulant dosing system.</li> <li>Flows and loadings expected to be reduced on conclusion of a major construction project.</li> </ul>
5	Omstead Foods Ltd.	Wheatley (Windsor)	Food Processing Effluent	<ul style="list-style-type: none"> <li>Exceeded Certificate of Approval monthly limits for total suspended solids, biochemical oxygen demand, total phosphorus, &amp; dissolved oxygen due to cold weather and variable influent loadings during processing and start-up.</li> <li>Modifications to the system addressed the problems and compliance is anticipated in the future.</li> </ul>

• Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
6*	Ontario Hydro Bruce Nuclear Generating Station - A	Kincardine (Owen Sound)	Electrical Power Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval limit for change in total suspended solids (intake to outfall) in January.</li> <li>Exceeded the certificate of approval limit for ammonia in February and March.</li> <li>Bruce A personnel have met with District staff and agreed to continue to gather information and report exceedances until there is sufficient data to support an amendment to the Certificate of Approval.</li> </ul>
7	Ontario Hydro Bruce Nuclear Power Development Services	Kincardine (Owen Sound)	Electrical Power Effluent	<ul style="list-style-type: none"> <li>The limit at the final outfall to Lake Huron was not exceeded in 1994. However, the limit for total residual chlorine at the Bruce Bulk Steam System condensate plant control point was exceeded during 24 days in 1994.</li> <li>22 times due to an operational error in calculating de-chlorinating agents, 1 due to control problems and 1 due to freezing of equipment.</li> <li>Current procedures have been reviewed and amended, a re-occurrence is not expected.</li> </ul>
8	Pottersburg WPCP	London (London)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded Certificate of Approval monthly limits for total suspended solids.</li> <li>Settleability problems due to unknown substance in system, a preliminary optimization study was undertaken in 1994 to improve plant performance.</li> </ul>

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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
9*	Rodney WPCP	Rodney (London)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded Certificate of Approval monthly limits for total suspended solids once, ammonia twice and E.Coli once.</li> <li>The Sutton Process has been abandoned, new filters and a UV disinfection system constructed and placed in operation.</li> </ul>
10	Seaforth WPCP	Seaforth (Owen Sound)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the Certificate of Approval bacteriological limit three times.</li> <li>Numerous wildlife in the area of the lagoons appear to be causing the problem.</li> <li>A proposal for a UV effluent disinfection system has been approved by council and will be installed.</li> </ul>
11*	Shell Canada Products Ltd.	Corunna (Sarnia)	Petroleum Effluent	<ul style="list-style-type: none"> <li>Exceeded Certificate of Approval limits for phenols once due to unexpected high rainfall.</li> <li>The stormwater pond was pumped during this high rainfall event to maintain the structural integrity of the pond and to minimize the discharge of contaminants.</li> <li>Changes to the stormwater and process water treatment systems have reduced loadings and improved the stormwater management system.</li> </ul>

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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
12*	Tavistock Lagoon	East Zorra- Tavistock (London)	Municipal Effluent	<ul style="list-style-type: none"><li>• Exceeded Certificate of Approval monthly limits for total suspended solids.</li><li>• Operational problem has been identified and controls are now in place to prevent re-occurrence.</li></ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.





# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1*	Champlain Industries Ltd.	Tara (Owen Sound)	Food Processing Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total suspended solids guidelines three times.</li> <li>Agreement for diversion of company wastes to municipal treatment works is now being finalized.</li> </ul>
2	Chinook Chemicals Company	Sarnia (Sarnia)	Organic Chemical Effluent	<ul style="list-style-type: none"> <li>Exceeded the provincial industrial waste dischargers ammonia guideline.</li> <li>The company has been required to develop a waste treatment system. A pilot plant study has been completed and design of a new treatment system is underway.</li> </ul>
3	Clinton WPCP	Clinton (Owen Sound)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total phosphorus guideline due to chemical pump malfunction.</li> <li>Pump replaced, future compliance is anticipated.</li> </ul>
4*	Comber Lagoon	Tilbury West Township (Windsor)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total phosphorus guideline due to overflow preceding spring phosphorus treatment, prior to discharge.</li> </ul>
5	Dundalk Lagoons	Dundalk (Owen Sound)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total phosphorus guideline once, believed to be a result of thick ice forcing the phosphorus to concentrate in the under-lying layer.</li> <li>Discharge was stopped, then restarted when compliance with the guideline was achieved.</li> </ul>

\* Indicates facilities which also appeared in the 1993 Waste Water Discharges Report.



# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

## Non-Compliance With Policies and Guidelines

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
6*	Gay Lea Foods Cooperative Ltd.	Tecswater (Owen Sound)	Food Processing Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly guidelines for total suspended solids and biochemical oxygen demand twelve times, ammonia nitrogen three times, and total phosphorus four times.</li> <li>Currently implementing consultant's plan to reduce loadings and improve waste treatment plant operation.</li> </ul>
7*	General Chemical Canada Ltd.	Amherstburg (Windsor)	Inorganic Chemical Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly guidelines for pH, ammonia nitrogen and total suspended solids in the North Drain and total suspended solids in the Main Drain.</li> <li>The company is undergoing review of operations to ensure compliance with all guidelines and effluent regulations.</li> </ul>
8	Glencoe Lagoons	Glencoe (London)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of annual guidelines for total suspended solids.</li> <li>Algae caused settling problems during both discharges, continuous alum feed installed during November 1994 and future compliance is anticipated.</li> </ul>
9	Harrow Lagoon	Harrow (Windsor)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of the annual total suspended solids guidelines due to a single sample taken on the final day of the fall discharge.</li> <li>Wind action produced a scouring effect on the lagoon bottom, the discharge was immediately terminated.</li> </ul>

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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
10	McGregor Lagoon	Anderdon Township (Windsor)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total phosphorus guideline during an approved emergency discharge.</li> <li>The discharge was halted as soon as non-compliance was discovered, an Optimization Study is currently in progress to improve treatment from this facility.</li> </ul>
11*	Oil Springs Lagoon	Oil Springs (Sarnia)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of annual total suspended solids guidelines once due to algae (free swimming) in one of the two cells discharged.</li> <li>Efforts continue to control this problem.</li> </ul>
12	Petrolia Lagoon	Petrolia (Sarnia)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total phosphorus guideline once, reportedly caused by a lab error.</li> <li>Future compliance is anticipated.</li> </ul>
13	Sarnia WPCP	Sarnia (Sarnia)	Municipal Effluent	<ul style="list-style-type: none"> <li>Minor exceedance of monthly total phosphorus guideline due to operational problems, corrected immediately.</li> <li>Future compliance is anticipated.</li> </ul>

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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

## Non-Compliance With Policies and Guidelines

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
14*	Stoney Point Lagoon	Tilbury North Township (Windsor)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of annual suspended solids and biochemical oxygen demand guidelines during both spring and fall discharges due to adverse weather conditions, algae blooms and an extended discharge period.</li> <li>Optimization study in progress to improve treatment facilities.</li> </ul>
15*	Strathroy Lagoons	Strathroy (London)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of annual guidelines for total suspended solids and monthly guidelines for total phosphorous four times.</li> <li>Alum feed injection point moved and mixer added to improve phosphorous removal, additional improvements are anticipated.</li> </ul>
16	Thamesville WPCP	Thamesville (Windsor)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total phosphorus guideline once due to alum line freeze up in extremely cold weather.</li> <li>The line was repaired and plant completed the year in compliance.</li> </ul>
17	The Canadian Salt Company Ltd.	Windsor (Windsor)	Industrial Minerals Effluent	<ul style="list-style-type: none"> <li>Minor exceedance of the total suspended solids guideline once.</li> <li>Future compliance is anticipated.</li> </ul>
18	Thedford Lagoon	Thedford (Sarnia)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of annual total suspended solids guidelines once due to algae in the discharge.</li> <li>Efforts continue to control the problem.</li> </ul>

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Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Southwestern Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
19	Tilbury Lagoon	Tilbury (Windsor)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of annual total suspended solids and monthly total phosphorus guidelines during the spring discharge due to adverse weather conditions.</li> <li>Optimization study in progress to improve treatment facilities.</li> </ul>
20	Vanastra WPCP	Tuckersmith- Vanastra (Owen Sound)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total phosphorus guideline once.</li> <li>Line carrying phosphorus removal chemical froze, problem was corrected and compliance achieved.</li> </ul>
21	Walkerton WPCP	Walkerton (Owen Sound)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total phosphorus guideline due to excessive hydraulic loading.</li> <li>Chemical feed adjusted accordingly and compliance achieved.</li> </ul>
22	Watford Lagoon	Watford (Sarnia)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of annual total suspended solids guidelines once.</li> <li>Minor exceedance at the end of the discharge, future compliance is anticipated.</li> </ul>
23	West Lorne Lagoon	West Lorne (London)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceedance of monthly total phosphorus guideline due to spring overflow of contents prior to phosphorus treatment.</li> <li>Plant is currently under expansion and future compliance is anticipated once the expansion has been completed.</li> </ul>

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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1*	American Standard, Div. of Wabco Standard Inc.	Cambridge (Cambridge)	Metal Fabrication Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded average monthly concentration limit eight times and average monthly loading limit twice for total suspended solids.</li> <li>Shock chlorination was not successful in controlling the bulking of solids. The company has hired a consultant to study the problem and recommend a solution for implementation.</li> </ul>
2*	Cytac Canada Inc. (formerly Cyanamid Canada Inc.)	Welland (Welland)	Inorganic Chemical Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly total suspended solids concentration eight times and monthly phosphorous concentration once.</li> <li>This was attributed to storm water runoff.</li> </ul>
3	Domtar Specialty Fine Papers	St. Catharines (Welland)	Pulp & Paper Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly total phenol loading once and biochemical oxygen demand loading twice.</li> <li>Toxicity exceedance was reported once.</li> <li>Company will be installing an aeration basin to reduce toxicity and resolve the other parameters of concern.</li> </ul>

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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
4*	Dundas WPCP	Dundas (Hamilton)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly concentration limits for biochemical oxygen demand, total suspended solids, total phosphorous and total kjeldahl nitrogen once.</li> <li>Exceeded the weekly loading limits for biochemical oxygen demand, total phosphorus and total kjeldahl nitrogen twice and total suspended solids three times.</li> <li>The exceedances were due to a number of problems including cold winter temperatures, mechanical problems on the return sludge line, modifications to the aeration section and problems with a ferric chloride feed line.</li> <li>The municipality and the MOEE are currently negotiating a voluntary abatement program to ensure future compliance with the limits.</li> </ul>
5	The Exolon-ESK Company of Canada Ltd.	Thorold (Welland)	Inorganic Chemical Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly total suspended solids concentration once.</li> <li>Company has installed a surge tank/settling pond to control total suspended solids.</li> </ul>

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
6*	Geon Canada Inc. (formerly B.F. Goodrich)	Niagara Falls (Welland)	Organic Chemical Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded daily total suspended solids concentration twice in March; the problem was resolved and compliance was achieved for the remainder of the year.</li> </ul>
7*	Guelph WPCP	Guelph (Cambridge)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded the biochemical oxygen demand concentration limits three times, and the ammonia-nitrogen concentration limit twice.</li> <li>These exceedances were attributed to the abnormally low temperatures experienced during this period resulting in the suppression of the nitrification process.</li> </ul>

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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

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8*	Horizon Poultry Products	Ayr (Cambridge)	Poultry Processing Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded limits for chlorine residual once, phosphorous once, total suspended solids three times, biochemical oxygen demand once and fecal coliform five times.</li> <li>The total suspended solids and biochemical oxygen demand exceedances were due to bulking caused by filamentous bacteria.</li> <li>The company claimed that the bacteria exceedances were due to the analytical method used.</li> <li>Installation of additional treatment improved the performance after April. The company will investigate the use of E. Coli. as a more reliable indicator of fecal contamination than Fecal Coliform monitoring.</li> </ul>

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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
9*	Ontario Hydro Nanticoke TGS	Nanticoke (Hamilton)	Thermal Generating Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded maximum allowable daily limit for total suspended solids fourteen times (control point 0100). Exceedances were minimal above Certificate of Approval requirements. No further abatement action was required.</li> <li>Exceeded maximum allowable weekly limit for copper six times and zinc four times (control point 0100). Exceedances attributed to turbine cleaning solutions and rinses being discharged to Ash Lagoon. The solutions and initial rinse are now disposed of off-site.</li> <li>Exceeded maximum allowable daily limit for total chlorine residual once (control point 0200) due to the malfunction of a hypochlorite pump. The pump was removed from service.</li> </ul>

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
10*	Shelburne WPCP	Shelburne (Cambridge)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded biochemical oxygen demand loading limits three times, total suspended solids concentration and loading limits four times, and total phosphorus concentration and loading limits once.</li> <li>These exceedances were attributed to the abnormally low temperatures experienced during the winter months.</li> <li>A cover has been installed over the aeration rotors for heat retention in order to improve biological activity during extreme cold periods.</li> <li>A consultant has been retained by the municipality to study plant optimization.</li> </ul>
11	Stanley Hardware	New Hamburg (Cambridge)	Electro Plating Effluent	<ul style="list-style-type: none"> <li>Exceeded limits for zinc and copper once.</li> <li>Company feels that the use of a new raw material resulted in this problem.</li> <li>Effluent returned to compliance when the new material usage was discontinued.</li> </ul>
12*	Stelco Inc. Lake Eric Works	Nanticoke (Hamilton)	Iron & Steel Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded limit for total suspended solids twice.</li> <li>Exceedances attributed to algal growth in Pond 4.</li> </ul>

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
13*	Thorold Specialty Papers (formerly Noranda Forest )	Thorold (Welland)	Pulp & Paper Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded daily average pH limit eight times and monthly pH average limit once.</li> <li>Exceeded daily average chloroform loading twice and toxicity exceedances were reported four times</li> <li>Company has implemented new operational procedures to control pH and is conducting an in-house study to identify sources of toxicity.</li> </ul>

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Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

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14*	Waterloo WPCP	Waterloo (Cambridge)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded biochemical oxygen demand concentration limits twice, total suspended solids concentration limits eight times, and total phosphorus concentration limits nine times.</li> <li>These exceedances are attributed to the closure of a local industry resulting in a weak strength raw sewage which has contributed to the growth of filamentous bacteria and surface foam problems. Bulking of solids in the final clarifiers has resulted in solids carry over to the final effluent which shows up as final effluent exceedances for the named parameters.</li> <li>The return activated sludge will be chlorinated to alleviate the filamentous bacteria problem and a skimmer will be installed on the final clarifiers to assist in controlling the bulking problems.</li> </ul>

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Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
1*	Atlas Specialty Steels	Welland (Welland)	Iron & Steel Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly guideline for total suspended solids loading once.</li> <li>Improper backwash of filter media allowed particulate into the clearwell and to discharge. Occurred under labour relations/strike conditions when the main plant air compressors were shut down.</li> </ul>
2	Baden WPCP	Baden (Cambridge)	Municipal Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly total phosphorous concentration guideline three times.</li> <li>The industry responsible for the high strength loading has been identified and is now hauling the waste to another facility for treatment. Plant has been in compliance since this change.</li> </ul>
3	Beaverwood Fibre Company of Canada	Thorold (Welland)	Pulp & Paper Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded biochemical oxygen demand guideline eleven times.</li> <li>Company implementing program to re-circulate all wastewater.</li> </ul>
4*	General Motors of Canada	St. Catharines (Welland)	Metal Casting Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly guideline for phenol loading three times, phenol concentration three times and total suspended solids concentration once.</li> <li>The plant has closed and all direct discharges have ceased.</li> </ul>

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# WASTE WATER DISCHARGES REPORT/1994

Ministry of Environment and Energy

## Non-Compliance With Policies and Guidelines

West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1994
5	Inco Ltd.	Port Colborne (Welland)	Metal Mining Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly guideline for pH seven times.</li> <li>Exceedances are due to process fluctuations. The company is investigating alternatives for control of pH through the addition of carbon dioxide.</li> </ul>
6*	Rothsay Rendering, Div. of Maple Leaf Mills Ltd.	Flamborough (Hamilton)	Rendering Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded the guideline for total ammonia three times and suspended solids once. The suspended solids exceedance was attributed to elevated algal growth.</li> <li>The company is currently identifying the plant sources of high ammonia and are experimenting with nitrification/denitrification in the aeration basin.</li> </ul>
7	St. Jacob WPCP	St. Jacob (Cambridge)	Municipal Effluent	<ul style="list-style-type: none"> <li>A minor exceedance in the total phosphorous concentration guideline occurred in January.</li> <li>No further action has been deemed necessary.</li> </ul>
8	Sulco Chemicals Ltd.	Elmira (Cambridge)	Sulphuric Acid Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly total suspended solids guideline once due to operational error.</li> <li>New procedures have been put into place. Company was in compliance for the remainder of 1994.</li> </ul>

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Ministry of Environment and Energy

## Non-Compliance With Policies and Guidelines

West Central Region

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9	Washington Mills Electro Ltd.	Niagara Falls (Welland)	Inorganic Chemical Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly guideline for total suspended solids loading three times.</li> <li>The Company is currently undertaking short and long term initiatives to reduce total suspended solids loadings.</li> </ul>
10	Washington Mills Ltd.	Niagara Falls (Welland)	Inorganic Chemical Plant Effluent	<ul style="list-style-type: none"> <li>Exceeded monthly guideline for total suspended solids concentration once.</li> <li>The Company is currently undertaking short and long term initiatives to reduce total suspended solids loadings.</li> </ul>

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